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DATE MAILED: 05/24/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/674,550	03/27/2001	Oded Melamed	P- 674550	9025
23494	7590 05/24/2005		EXAMINER	
	TRUMENTS INCORF	DEPPE, BETSY LEE		
DALLAS, TX	474, M/S 3999 K 75265	ART UNIT		PAPER NUMBER
·			2637	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/674,550	MELAMED ET AL.			
		Examiner	Art Unit			
		Betsy L. Deppe	2637			
D:	The MAILING DATE of this communication app	pears on the cover sheet with the c	correspondence address			
Period fo	• •					
THE - Exte after - If the - If NC - Failt Any	IORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl o period for reply is specified above, the maximum statutory period v ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	mely filed /s will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)[汉]	Responsive to communication(s) filed on 15 D	ecember 2004				
	· · · · · · · · · · · · · · · · · · ·	action is non-final.				
3)□						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4) 🛛	4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.					
,—	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)□	Claim(s) is/are allowed.					
6)⊠	⊠ Claim(s) <u>1-10</u> is/are rejected.					
7)	')□ Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/o	r election requirement.				
Applicat	ion Papers					
9)[The specification is objected to by the Examine	er.				
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.			
Priority (under 35 U.S.C. § 119					
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).			
	☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority document	s have been received.				
	2. Certified copies of the priority document	s have been received in Applicati	ion No			
	3. Copies of the certified copies of the prior		ed in this National Stage			
	application from the International Bureau					
* (See the attached detailed Office action for a list	of the certified copies not receive	∌d .			
Attachmen	• •	רח .				
1) 🔀 Notice 2) 🗌 Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da	(PTO-413) ate			
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date		Patent Application (PTO-152)			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see pages 5-8, filed December 15, 2004, with respect to the rejection(s)of claim(s) 1-10 under 35 USC 102(e) and 35 USC 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Kang (US Patent No. 6,198,780 B1) and Abe (US Patent No. 6,148,037 cited in the Office Action mailed September 30, 2004).

Claim Objections

2. Claim 5 is objected to because of the following informalities: in line 3, "provide" should be "to provide" or "providing". Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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4. Claims 1-4 and 6-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Kang (US Patent No. 6,198,780 B1). Figure 1 of Kang discloses the claimed invention including a narrow band pass filter (160), a non-linear transformer (180) and a loop filter (200). (See also Figure 2 and column 3, line 36 - column 5, line 14)

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5. Claims 1, 5, 6 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Abe (US Patent No. 6,148,037 cited in the Office Action mailed September 30. 2004). Figure 4 of Abe discloses the claimed invention including a narrow band pass filter (263) and a non-linear transformer (264) wherein the non-linear transformer is adapted to square the signal portion thereby providing a complex signal having a real and an imaginary component and provide the imaginary component as the timingretrievable signal. (See column 5, lines 39-67) Since the output of the complex square computing circuit (uk) is a complex sequence, it is inherent that it includes a real and imaginary component and that the imaginary component is subsequently processed to retrieve timing information.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betsy L. Deppe whose telephone number is (571) 272-3054. The examiner can normally be reached on Monday, Wednesday and Thursday (8:30-4:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272 - 2988. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Betsy L. Deppe Primary Examiner Art Unit 2637